U.S. SERIAL NO. 08/965,356 FILED NOVEMBER 6, 1997 **AMENDMENT** 

## Appendix: claims as pending upon entry of the amendment.

- (amended) A non-human transgenic animal [having binding to] genetically engineered to 1. express a syndecan or proteoglycan portions thereof [the melanocortin 4 receptor function inactivated], wherein the animal is characterized by an obese phenotype.
- (amended) The animal of claim 1 wherein the animal expresses a [molecule] syndecan from a genetically engineered construct stably integrated into its genome [wherein the molecule binds to the melanocortin 4 receptor].
- (amended) The animal of claim 2 wherein the molecule is [a] syndecan -1. 3.
- (amended) The animal of claim 2 wherein the [molecule] syndecan is expressed 4. preferentially in the areas of the hypothalamus responsible for the regulation of body weight and energy balance.
- The animal of claim 4 having incorporated therein a construct including a cytomegalovirus promoter or portion thereof including the intermediate/early enhancer.
- The animal of claim 1 having the genotype FVB/N-TgN(synd-1). 6.
- (amended) A genetically engineered construct for making a transgenic animal 7. comprising a promoter and a nucleic acid molecule encoding a syndecan, wherein the syndecan is preferentially expressed in the regions of the hypothalamus responsible for the regulation of body weight and energy balance.
- The construct of claim 7 wherein the promoter is the cytomegalovirus promoter or a 8. functional portion thereof including the intermediate/early enhancer.
- The construct of claim 7 wherein the syndecan is syndecan-1.
- (amended) A method for screening for compounds which can alter body weight 10. comprising

administering a compound to a non-human transgenic animal genetically engineered to express a syndecan or proteoglycan portions thereof [having binding to the melanocortin 4 receptor function inactivated], wherein the animal is characterized by an obese phenotype., and observing whether there is a change in body weight over a period of time.

- (amended) The method of claim 10 wherein the animal expresses a [molecule] syndecan 11. from a genetically engineered construct stably integrated into its genome [wherein the molecule binds to the melanocortin 4 receptor].
- (amended) The method of claim 10 wherein the [molecule] syndecan is [a] syndecan 1. 12.
- (amended) The method of claim 11 wherein the [molecule] syndecan is expressed preferentially in the areas of the hypothalamus responsible for the regulation of body weight and energy balance.
- The method of claim 13 wherein the animal has incorporated therein a construct including a cytomegalovirus promoter or portion thereof including the intermediate/early enhancer.
- The method of claim 14 wherein the animal has the genotype FVB/N-TgN(synd-1). 15.

20027/58